



## AGRICULTURE PROJECTS FUNDED IN KANSAS

by USDA's  
Sustainable Agriculture Research and Education (SARE) Program  
1988-2016

Kansas has been awarded \$3,321,136 to support 141 projects, including but not limited to, 24 research and/or education projects, 8 professional development projects and 88 producer-led projects. Kansas has also received additional SARE support through multi-state projects.

State Sustainable Agriculture Coordinator(s):

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### RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">LNC15-369</a>	Strengthening Organic Sweet Potato Propagation Systems in the North Central Region	\$195,968	Dr. Jason Griffin Kansas State University
<a href="#">LNC15-372</a>	The Impact of Fuel Load, Burn Season, and Fire Frequency on the Control of an Invasive Legume, <i>Sericea Lespedeza</i>	\$199,717	Dr. Brenda Koerner Emporia State University Pamela Fillmore Emporia State University
<a href="#">LNC13-355</a>	Tomato Grafting: Developing Grower Recommendations for the Great Plains and Enhancing Our Understanding of the "Rhizobiome"	\$158,516	Dr. Cary Rivard Kansas State University
<a href="#">LNC10-318</a>	Establishment of Permissible Levels of Residue Removal for Corn, Wheat, and Sorghum Fields as Biofuel Feedstocks	\$173,278	Dr. Humberto Blanco University of Nebraska
<a href="#">LNC10-319</a>	Participatory Plant Breeding and Agroecology to Develop Intermediate Wheatgrass for Sustainable Grain Production	\$171,446	Dr. Lee DeHaan The Land Institute
<a href="#">LNC06-274</a>	Domesticating Intermediate Wheatgrass for Sustainable Grain Production	\$134,765	Dr. Lee DeHaan The Land Institute
<a href="#">LNC06-273</a>	Pasture-wheat intercropping for post-contract Conservation Reserve Program Lands	\$70,188	Dr. Jerry Glover The Land Institute
<a href="#">LNC05-253</a>	Growing Growers for Greater Kansas City: Establishing a Permanent Program to Train Farmers in Sustainable, Local Food Production and Marketing	\$105,027	Edward Carey Kansas State University
<a href="#">LNC03-238</a>	Growing Growers for Greater Kansas City: Improving Skills for Sustainable Local Food Production and Marketing	\$100,246	Edward Carey Kansas State University

<a href="#">LNC02-210</a>	Guided Exploration of Value Added Enterprises Project	\$99,096	Dan Nagengast Kansas Rural Center, Inc
<a href="#">LNC01-184</a>	Developing a Historical Community-Based Wheat Milling Cooperative	\$83,965	Edgar Hicks Kansas Black Farmers Assoc.
<a href="#">LNC00-170</a>	Assisting Farmers with Enterprise Diversification	\$54,550	Jerry Jost Kansas Rural Center
<a href="#">LNC99-151</a>	Skill Training for Beginning Farmers	\$30,886	Jerry Jost Kansas Rural Center
<a href="#">LNC98-127</a>	County Fair Tomato Cooperative: Developing an Organic Tomato Processing Cooperative	\$67,800	Dan Nagengast Kansas Rural Center, Inc
<a href="#">LNC98-142</a>	Heartland Sustainable Agriculture Network	\$64,000	Jerry Jost Kansas Rural Center
<a href="#">LNC97-106</a>	Cluster use of Whole-Farm Planning with Decision Cases and Evaluation	\$106,400	Dr.Rhonda Janke Kansas State University
<a href="#">LNC97-123</a>	Yesterday's Research for Tomorrow's Needs	\$63,500	Dr.Rhonda Janke Kansas State University
<a href="#">LNC96-102</a>	Bioremediation of Saline Seeps	\$17,778	Kyle Mankin Biological and Agricultural Engineering, Kansas State University
<a href="#">LNC96-110</a>	Farmer Marketing Information Coops	\$22,390	Jerry Jost Kansas Rural Center
<a href="#">LNC95-078</a>	Development of a Rancher Cooperative to Market Grass-Fed Meat	\$33,300	Dan Nagengast Kansas Rural Center, Inc
<a href="#">LNC95-083</a>	Farmer-to-Farmer Cover Crop Network Complementing On-Farm and On-Station Trials	\$46,954	Jerry Jost Kansas Rural Center
<a href="#">LNC89-016.1</a>	Assessing Soil Phosphorus Availability in Low-Input Systems	\$19,742	Steve Thien Kansas State University
<a href="#">LNC89-025</a>	Synchrony and Contribution of Legume Nitrogen for Grain Production Under Different Tillage Systems	\$95,081	John Havlin Kansas State University
<a href="#">LNC88-016</a>	Assessing Soil Phosphorus Availability in Low-Input Systems	\$18,949	Steve Thien Kansas State University

#### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">ENC15-146</a>	Soil Health Bootcamp and Applications	\$64,307	Dr.Megan Kennelly

	to Sustainable Vegetable Cropping: Professional Development for Local Agriculture Educators		Kansas State University
<a href="#">ENC11-125</a>	Professional Training for Sustainable Agroforestry in Kansas	\$50,946	Nicole Ricci Kansas Forest Service Dr.Megan Kennelly Kansas State University
<a href="#">ENC09-107</a>	Developing Extension Competence in Good Agricultural Practices and Farm Food Safety Planning for Fruit and Vegetable Growers in Kansas and Missouri	\$46,614	Jeffrey Callaway Kansas State University Dr.Cary Rivard Kansas State University
<a href="#">ENC09-108</a>	Kansas NRCS Organic Training Program	\$54,074	Mary Fund Kansas Rural Center
<a href="#">ENC06-089</a>	Building Capacity to Engage Latinos in Local Food Systems in the Heartland	\$75,000	Dr.Gerad Middendorf Kansas State University
<a href="#">ENC03-075</a>	Grow Your Farmer's Market	\$54,211	Jerry Jost Kansas Rural Center
<a href="#">ENC00-047</a>	Local Food to Local People: Enlarging a Regional Food System Through Nutrition Education	\$60,145	Nancy O'Connor Community Mercantile Education Foundation Nancy O'Conner Community Mercantile Education Foundation Inc
<a href="#">ENC99-046</a>	Environmental Farm Analysis and Planning: A Whole Farm Planning Training Exercise Designed for Extension and NRCS Personnel	\$82,994	William Hargrove Kansas State University, KCARE

#### FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">FNC16-1029</a>	Exploring the Economic and Environmental Sustainability of No-Till Organic Sweet Potato Production	\$7,115	Tom Buller Buller Family Farm/ Common Harvest Farms
<a href="#">FNC16-1038</a>	Portable Grazing System for Goats on Invasive Weeds and Brush	\$4,047	Jody Holthaus Meadowlark Extension Districty
<a href="#">FNC16-1039</a>	Weed Control by Mechanical Implement, Specifically for Row Crop and No-Till Farm Operation	\$7,435	Jaryl Hudson Hudson Farms
<a href="#">FNC15-1020</a>	Preserving the genetic diversity of acclimated feral and survivor stock honeybees for future use as breeding stock in local, diversified production of queen bees.	\$7,498	Gage Werner Werner Creek Farm
<a href="#">FNC14-971</a>	Economics of Grazing and Haying Cover Crops in North Central Kansas	\$7,223	Josh Roe B&H Ranch
<a href="#">FNC14-978</a>	Feasibility, planning and purchase of Mobile Processing Unit (MPU) for Scaling up Free Range Poultry Meat	\$22,500	Chris Sramek High Plains Poultry

	Processing for High Volume Retail Market		
<a href="#">FNC14-959</a>	Growing Mushrooms on Local Agricultural Byproducts	\$11,319	Mark Lumpe Wakarusa Valley Farm
<a href="#">FNC13-934</a>	Activating soil fertility in mulch-prepared small-plot commercial no-till	\$5,944	Ryan Stubby Gardens at Eighty Acres
<a href="#">FNC13-906</a>	Exploring Edible Cactus Production as a New Specialty Crop in the Midwest	\$15,000	Alicia Ellingsworth Cultivate KC
<a href="#">FNC13-897</a>	Kansas Ranch and Range Management Internship Phase II	\$22,500	Calvin Adams Adams Ranch
<a href="#">FNC13-939</a>	Soil microbial responses to cover crop use	\$7,500	Karen Willey Bluestem Farm
<a href="#">FNC12-895</a>	Advanced Row Cover Management for Annual Raised-bed Strawberry Production in Eastern Kansas	\$5,644	Jerry Wohletz Wohletz Farm Fresh
<a href="#">FNC12-863</a>	Full Circle Aquaponics Demonstration Site	\$7,500	Alice Hill Beaver Creek Ranch
<a href="#">FNC10-829</a>	Economic feasibility of using wood chip mulching to address the combined vineyard issues of 1) low organic matter, 2) weed control, and 3) irrigation costs	\$5,880	Jo Ann Kuhlmann
<a href="#">FNC10-830</a>	Evaluating the suitability of low-trellises and various hop cultivars for small organic farm production in Northeast Kansas	\$6,000	Jill Elmers
<a href="#">FNC10-827</a>	Examine the practicality of using high tunnels on a rotational basis to increase sustainability on a small acreage.	\$5,200.78	Kay Neff Neff Family Farm
<a href="#">FNC10-798</a>	Kansas Ranch and Range Management Internship	\$18,000	Calvin Adams Adams Ranch
<a href="#">FNC10-812</a>	Organic Slot farming: a new approach to growing farming and gardening	\$2,517.22	Rachel Jefferson Oak Grove Neighborhood Association Isaac Jefferson
<a href="#">FNC10-808</a>	South Central Kansas Residue Alliance, "A Framework for Change" One Producer, One Farm at a Time!	\$17,920.09	Leon Sowers Farmer, Project Coordinator Terry Hodgson SCKRA
<a href="#">FNC09-782</a>	Connecting Farmer to Consumer through Small Businesses of Rural Main Street	\$5,989	Carissa McKenzie Horse Creek Ranch
<a href="#">FNC09-753</a>	Measuring the Value of Inter-Seeding Legumes into Established Cool Season Pastures in North Central Kansas -- Part 2	\$6,000	Calvin Adams Adams Ranch

<a href="#">FNC09-793</a>	Sustainable agriculture education and practicum for Kansas small farmers and ranchers using permaculture principles of ecological systems design and management	\$17,976	Steve Moring Vajra Farm Charles NovoGradac Chestnut Charlie's Organic Tree Crops Maryam Hjersted Prairie Lovesong Farm
<a href="#">FNC08-714</a>	Bistro Kids Farm 2 School Program - Bringing Healthy, Locally Grown Food to the Next Generation	\$17,657	Diana Endicott Good Natured Family Farms
<a href="#">FNC08-725</a>	Defining Our Production Region	\$14,900.42	Joe Wilson Missouri Northern Pecan Growers
<a href="#">FNC08-732</a>	Eat Your Peas! Entrepreneurial Farming and Nutrition Training for youth in Urban KC, KS	\$6,000	Angela Greene
<a href="#">FNC07-650</a>	Can Straw Mulch and a High Tunnel Be Used to Better Grow Ginger in the Midwest?	\$5,320	Pov Huns Huns Garden
<a href="#">FNC07-646</a>	Grapevine Bird Damage Control	\$6,000	Norman Jennings
<a href="#">FNC07-660</a>	Interseeding Legumes into Established Cool Season Pastures	\$2,758.50	Calvin Adams Adams Ranch
<a href="#">FNC07-683</a>	Peony Flower Insurance for Early Market Blooms-the High Tunnel	\$5,985	Jo Anne Thomas
<a href="#">FNC06-604</a>	A Comparison of Heritage Breed Rabbit and Commercial Breed Rabbit in Two Different Production Systems	\$6,000	Callene Rapp
<a href="#">FNC06-619</a>	Microclimate Enhanced Movable High Tunnel with Retractable Top	\$5,992	Terence Herl
<a href="#">FNC06-628</a>	Small Poultry Farm Education Project	\$5,998	Christine Allen
<a href="#">FNC06-634</a>	Urban Farming	\$5,017	Beverly Pender Soul & Soil Rainbow Gardens
<a href="#">FNC05-551</a>	Can Screened High Tunnels Extend the Growing Season of Bitter Melon in the Midwest?	\$6,000	Pov Huns Huns Garden
<a href="#">FNC05-552</a>	Extreme Makeover: Prairie Restoration	\$5,702	Becky Walters
<a href="#">FNC05-577</a>	Kansas City Organic High Tunnel Research Cooperative	\$17,975	Stu Shafer Sandheron Farm
<a href="#">FNC05-572</a>	Multi-Species Pasture Stacking	\$6,000	John C. Bauman

<a href="#">FNC05-560</a>	Using Meat Goats to Control Sericea Lespedeza	\$2,461.23	Darren Jackson
<a href="#">FNC04-496</a>	Homestead Range Renewal Initiative	\$6,000	Jane Koger
<a href="#">FNC04-525</a>	Pumpkin Patch Salsa	\$6,000	Becky Walters
<a href="#">FNC04-502</a>	Sustainable Ongoing Agricultural Research (SOAR) Project Utilizing Sunflowers and Austrian Winter Peas as a Cover Crop to Produce Bio-Diesel Fuel and Organic Nitrogen Fertilizer	\$1,990	Irwin Porter Smoky Hills Resource Conservation and Development
<a href="#">FNC04-499</a>	Transition of a Conventional Beef Cattle Operation to Sustainable Agricultural Beef Cattle Operation and Evaluation of Alternative Pasture Usage and Hay Field Fertilization Practices in Northeast Kansas	\$5,863	Melvin Williams
<a href="#">FNC03-448</a>	Clover 101: Can Clover Help Eastern Kansas?	\$1,847	Kevin Morrill
<a href="#">FNC03-444</a>	Lazy S Farms Cold Frame Production	\$5,898	Larry Sorell Lazy S Farms
<a href="#">FNC03-449</a>	Moveable High Tunnel	\$5,874	Karen Rains
<a href="#">FNC03-455</a>	The Use of Cover Crops in Western Kansas Crop Rotation in Lieu of Summerfallowing, and the Economic Return of Both	\$4,635	Glenn Brands
<a href="#">FNC02-404</a>	Farmer to Food Co-op Meat Marketing Project	\$18,000	Edward Reznicek
<a href="#">FNC02-422</a>	Fragrant Rose Production for Small Farm Income Supplement	\$5,529	Sherry Davis
<a href="#">FNC02-426</a>	Using Agroforestry to Winter Cattle	\$4,760	Dale Strickler
<a href="#">FNC01-374</a>	Can Shade Cloth and Mulch Extend the Greens Season in the Midwest Region?	\$5,000	Katherine Kelly Kansas City Center for Urban Agriculture
<a href="#">FNC01-346</a>	Control of Invasive Species Threatening Native Grasses in a Flint Hills Pasture	\$5,000	Harold Garner
<a href="#">FNC01-342</a>	Fairwillow Farm: A Small On-Farm Pork Processing Facility	\$4,932	Rodney Schroeder

<a href="#">FNC01-383</a>	Farmstead Heating with Biomass	\$5,000	Nathan Hyde
<a href="#">FNC00-329</a>	A Farmer Network Model for Group Marketing and Purchasing	\$12,200	Harold Walker
<a href="#">FNC00-319</a>	Talkington's Family Farm Fryers	\$5,000	Keith Talkington
<a href="#">FNC99-275</a>	Adding Value to Cows for Family Farmers	\$9,300	Alan Jones
<a href="#">FNC99-280</a>	Kenaf: Ag Fiber of the Future?	\$4,630	DeWayne Craghead
<a href="#">FNC99-252</a>	Organic Medicinal Herb Cultivation	\$5,000	Delores Conley
<a href="#">FNC98-239</a>	A Consumer Driven System to Natural Beef Marketing	\$9,449	Diana Endicott
<a href="#">FNC98-220</a>	Beef Alliance Association to Develop a Premium Market	\$3,650	Larry Becker
<a href="#">FNC98-225</a>	Creating Value in Pooled Cull Cow Sales	\$10,000	Myron Runft
<a href="#">FNC98-224</a>	Economically Powered Water Supply Systems for Remote Locations	\$3,372	Donn Teske
<a href="#">FNC98-219</a>	Inter-seeding Legumes into Fescue	\$1,455	Tom Mulroy
<a href="#">FNC98-222</a>	Machinery Link, Co.	\$5,000	David Govert
<a href="#">FNC97-180</a>	Biological Control of Small Soapweed (Yucca glauca Nutt)	\$4,515	Richard Baldwin
<a href="#">FNC97-181</a>	Comparing Controlled Microbial Systems (CMS) Composting to Conventional Composting to Piled Feedlot Manure	\$5,000	Rick Boller
<a href="#">FNC97-171</a>	Creating the Link: Cooperative Marketing of Organic (All-natural) Beef	\$9,854	Diana Endicott
<a href="#">FNC97-188</a>	Machinery Link Co.	\$5,000	David Govert

<a href="#">FNC97-198</a>	Tree Filter and Wetland Livestock Waste Management Plan	\$4,808	Bob Sextro
<a href="#">FNC96-153</a>	Cover Crop Inter-row Seeder for Row Crops	\$3,200	Ervin Ediger
<a href="#">FNC96-142</a>	Erosion-sensitive Farm Converted to a Clean-water Farm with a MIG System and Well-planned Calving Facility	\$4,947	Daniel and Mary Howell
<a href="#">FNC96-157</a>	Prairie Hills Marketing Network: Marketing for Producers in Northwest Kansas	\$9,962	Jim Rowh
<a href="#">FNC95-111</a>	Winter Barley Breeding: By the Public	\$2,526	Walter Pickett
<a href="#">FNC94-085</a>	Cooler Development for Organic Meats and Produce	\$5,000	Dan Nagengast Kansas Rural Center, Inc
<a href="#">FNC94-080</a>	Revegetation and Succession of Western Kansas Riparian Site	\$4,752	Carol Blocksome
<a href="#">FNC94-068</a>	Utilizing Native Sandhill Plum as a Income-Producing Windbreak	\$3,689	Brenda Olcott-Reid
<a href="#">FNC93-041</a>	Clear Hilum Organic Soybean Trials	\$2,150	David Vogelsberg
<a href="#">FNC93-057</a>	Evaluating Various Forage Combinations in a Rotational Grazing System	\$3,000	Kenneth King
<a href="#">FNC93-048</a>	Non-Chemical Weed Control in Row Crop Production	\$2,950	Jerome Bering
<a href="#">FNC93-052</a>	Soil Conservation and Residue Management Demonstration	\$2,180	Clair Niles
<a href="#">FNC92-004</a>	Annual Alfalfa and Berseem Clover Interseeded into Winter Wheat for Fall Grazing and Green Manure	\$985	Oren Holle
<a href="#">FNC92-021</a>	Comparing Broadcasting and No-Till in Legume Establishment and using Beef Tallow for Round Bale Weather Protection	\$2,200	Tim Kunard
<a href="#">FNC92-008</a>	Comparing Various Grasses and Legumes for Dairy Cattle in a Rotational Grazing System	\$3,950	Kenneth King
<a href="#">FNC92-003</a>	Comparing Various Rates and Application Methods of Liquid Swine Manure in Grain Sorghum Production	\$2,700	Darrell Parks



<a href="#">FNC92-025</a>	Development of Sustainable Crop Rotation System	\$3,400	Kenneth Wallingford
<a href="#">FNC92-020</a>	Evaluation of Rotational Grazing in Established Mixed-Grass Pasture, and Interseeding Legumes into Winter Wheat	\$2,788	Charles McNeal
<a href="#">FNC92-017</a>	Fall-Sown Rye for Fall and Spring Grazing and Green Manure	\$2,315	Lee Quaintance
<a href="#">FNC92-023</a>	Intensive Rotational Grazing System in the Flint Hills of Kansas	\$5,000	Pete Ferrell

### GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">GNC14-190</a>	Developing a Thermal Imaging System for On-demand Corn Temperature Profiles for Variable Rate Irrigation	\$10,000	Devin Mangus Kansas State University Biological and Agricultural Engineering
<a href="#">GNC14-191</a>	Evaluating Camelina sativa as a Fallow Replacement Crop in Wheat Production Systems	\$10,000	Eric Obeng Kansas State University
<a href="#">GNC14-186</a>	The Influence of Elevated Temperatures on a Residual Insecticide and Inert Dust to Disinfest Empty Bins Prior to On-farm Grain Storage	\$10,000	Jennifer Frederick Department of Grain Science and Industry
<a href="#">GNC12-147</a>	Estimation of Soil N Availability for Tomato Production in High Tunnel vs. Open Field under Organic and Conventional Management	\$10,000	May Elfar Altamimi Kansas State University
<a href="#">GNC12-163</a>	Evaluating Interaction of Urban Farmers and Extension Educators in Metropolitan Kansas City	\$10,000	Dr. Rhonda Janke Kansas State University Caroline Tanner Kansas State University
<a href="#">GNC12-162</a>	Implementation of Novel Grafting Methods and Rootstocks for Organic and Heirloom Tomato Growers in the Midwest	\$10,000	Sarah Masterson Kansas State University
<a href="#">GNC08-090</a>	Laboratory, greenhouse and field based assessment of sodium acetate for control of plant bacterial speck disease	\$10,000	Xin Deng Kansas State University
<a href="#">GNC05-048</a>	Soil and Crop Quality Under High Tunnel	\$10,000	Sharon Knewtson Kansas State University
<a href="#">GNC04-040</a>	Comparing Organic and Conventional Fertilization Methods for Cut Flower Production in Haygrove High Tunnels	\$10,000	Katherine Stolp Kansas State University
<a href="#">GNC03-019</a>	Laboratory, Field and Farm Based Assessment of Compost and Compost Teas for Vegetable Crop Health	\$10,000	Chandrappa Gangaiah Kansas State University

### YOUTH EDUCATOR GRANTS

Project #	Project Title	SARE support	Project Leaders
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<a href="#">YENC15-093</a>	Oskaloosa Community Garden	\$2,000	Daniel Hissong
<a href="#">YENC13-060</a>	Veryl Switzer/KSU Agriculture Camp - Dining @ The Farmer's Table	\$1,984	JohnElla Holmes Nicodemus Educational Camps
<a href="#">YENC09-011</a>	Linking Sustainable Agriculture, Soil Quality, and Water Quality for 4th Graders of Cheney Lake Watershed, Central Kansas	\$2,000	DeAnn Presley Kansas State University, Department of Agronomy
<a href="#">YENC09-017</a>	YOUth-KAN (Kansas Agricultural Network)	\$2,000	Rosanna Bauman

#### YOUTH GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">YNC12-065</a>	Doorstep Harvest	\$400	Alex Bathurst
<a href="#">YNC10-049</a>	Biochar production and application rate tests at Kansas City Community Farm	\$325	Noah Brady Youth Project
<a href="#">YNC10-064</a>	Teaching Organic Agriculture at Market through Art and Fun	\$393.23	Evangeline Ellingsworth
<a href="#">YNC09-044</a>	Exploration of Decomposition with Trellising Materials	\$400	Brittney Blum
<a href="#">YNC09-030</a>	Sustainable Pest Control For Organic Pumpkins	\$400	Kevin Bauman
<a href="#">YNC08-028</a>	Little Horses/Big World Sustainable Agriculture	\$400	Cara Martin
<a href="#">YNC08-004</a>	Mulched vs. Unmulched Tomatoes and Water Usage	\$272	Jacob Chapman

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**Total funding from the USDA SARE program to  
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For further information on projects, contact North Central SARE at (612) 626-3113 or [ncrsare@umn.edu](mailto:ncrsare@umn.edu).

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